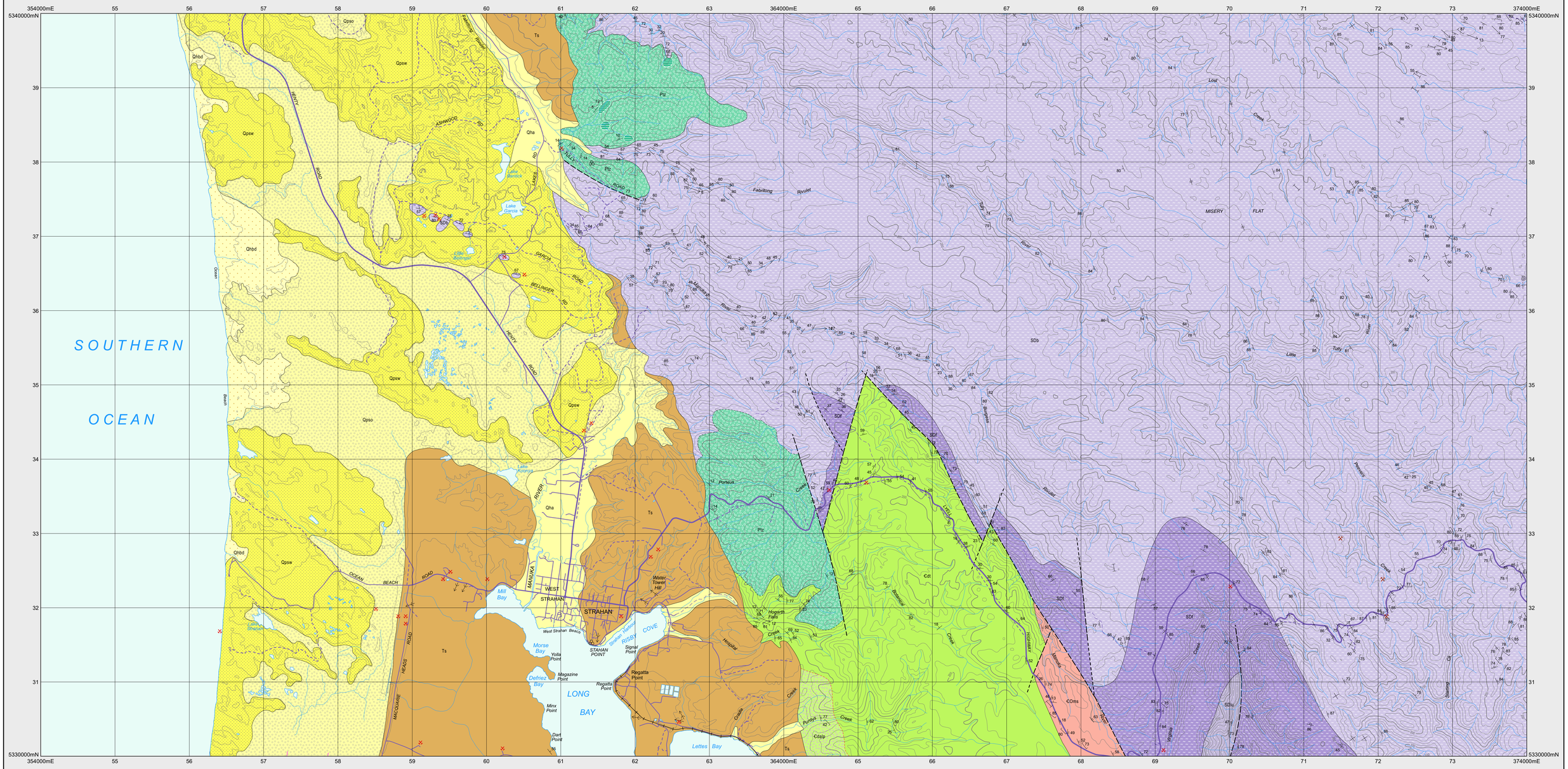
Department of State Growth
MINERAL RESOURCES TASMANIA

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
STRAHAN WEST, SHEET 3633

STRAHAN WEST

Scale 1:25 000

0 500 1000 1500 2000 2500m



COMPOSITE LEGEND FOR STRAHAN EAST AND STRAHAN WEST

CENOZOIC — QUATERNARY — HOLOCENE

- **Qhm** — *Man-made deposits, including mine dumps and disturbed ground (Qhm).*
- **Qha** — *Stream alluvium, swamp and marsh deposits (Qha).*
- **Qhbd** — *Younger active dune, beach sand and gravel (Qhbd).*
- **Qpso** — *Older aeolian sand and sand dunes (Qpso).*
- **Qpsw** — *Older aeolian sand dunes (Qpsw).*

CENOZOIC — QUATERNARY — PLEISTOCENE

- **Qpb** — *Bouldery slope and fan deposits, commonly with leveed channels, probably partly of glacial origin (Qpb).*
- **Qpgg** — *Undifferentiated Pleistocene glacial deposits (Qpgg).*
- **Qpgf** — *Mostly outwash gravels (Qpgf).*
- **Qpgt** — *Deeply weathered till, outwash gravel and lacustrine sediments. Reversed magnetic polarity indicate age > 730 000 ybp. Deposits of Linda Glaciation (Qpgt). Dolerite erratic at 378 590mE 5 332 310mN (Qpgd).*

CENOZOIC — PALEOGENE - NEOGENE

- **Ts** — *Dominantly non-marine sequence of gravel, sand, silt, clay and regolith (Ts).*

PALEOZOIC — PERMIAN

- **Ptz** — *Tillite and associated glacigene rocks (correlate of Wynyard Tillite) (Ptz).*
- **Ptzr** — *Rhythmite horizon (Ptzr).*

PALEOZOIC — SILURIAN — DEVONIAN

- **SDb** — *Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine-grained quartz sandstone (Bell Shale and correlates) (SDb).*
- **SDf** — *Fine-grained quartz sandstone with minor siltstone and mudstone (correlate of Florence Formation) (SDf).*
- **SDlu** — *Undifferentiated sandstone -mudstone-minor limestone sequence (correlates of Crotty and Amber Formations) (SDlu); mainly mudstone and siltstone with minor sandstone and rare limestone (correlate of Amber Formation) (SDa).*
  - **SDa** — *Mainly coarse-to fine-grained sandstone (commonly decomposed to a friable sand) with an upper sequence of siltstone and fine-grained sandstone in some areas (Crotty Formation and correlates) (SDc).*
  - **SDc**

PALEOZOIC — ORDOVICIAN

- **Ola** — *Mainly siltstone and fine-grained sandstone ("Rinadeena Shale" and correlates) (Ola).*
- **Ol** — *Limestone with some interbedded siltstone in places. Commonly decomposed to black clay "pug". (Gordon Limestone) (Ol).*
- **Osmp** — *Undifferentiated shallow marine - non-marine siliciclastic conglomerate - sandstone sequence - Owen Group and correlates (€O); grey to pink quartz sandstone with basal pebble-cobble conglomerate; trace fossils and chromite-rich bands in upper part (Pioneer Beds and correlates (Osmp).*

PALEOZOIC — CAMBRIAN — FURONGIAN

- **€O** — *Interbedded laminated siltstone, micaceous sandstone, graded greywacke, qaurtzite and minor siliceous conglomerate in Lower King River area (correlate of Newton Creek Sandstone) (€OMs).*
  - **€Oms**
  - **€Ocls** — *Green to grey, thin bedded micaceous siltstone and sandstone (€Ocls).*

MACQUARIE HARBOUR GROUP; ELDON GROUP; GORDON GROUP; OWEN GROUP; WURAWINA SUPERGROUP

PALEOZOIC — CAMBRIAN — CAMBRIAN SERIES 3

TYNDALL GROUP

- **€dl** — *Mainly volcaniclastic to polymict sandstone, breccia, siltstone, mudstone and conglomerate, typically quartz-feldspar-phyric. Marine fossils in places. Minor andesitic to basaltic lavas in places (correlates of Tyndall Group) (€dl).*
- **€dtss** — *Mainly well-bedded quartz-feldspar crystal-rich volcaniclastic sandstone with minor siltstone and volcaniclastic conglomerate, graded bedding common (€dtss).*
- **€dtbl** — *Mainly volcaniclastic sandstone and breccia (quartz-feldspar ± pyroxene-phyric), with minor vitric ash, conglomerate, sandstone and siltstone. Lynchford Member or Lower Tyndall Group (€dtbl).*
- **€dtsh** — *Mainly thin-bedded siltstone and mudstone with subordinate volcaniclastic sandstone (€dtsh).*
- **€dalb** — *Brown-weathering lava, breccia and related intrusives of basaltic to andesitic composition (feldspar-pyroxene-phyric), including Lynch Creek Basalts (€dalb).*
- **€dalp** — *Interlayered andesitic to basaltic lavas/intrusives with some crystal lithic rich volcaniclastic sediments and minor acid volcanics in the Pine Cove Creek area (€dalp).*

CENTRAL VOLCANICS COMPLEX — MT READ VOLCANICS

- **€dv** — *Dominantly feldspar-phyric volcanic and volcaniclastic rocks, with some andesitic to basaltic volcanics (€dv).*
- **€dvl** — *Mainly feldspar (+ quartz)-phyric lavas and possible intrusives (crypto-domes ?), commonly with a spherulitic or snowflake textured groundmass. Columnar jointing in some places (€dvl).*

WESTERN VOLCANO-SEDIMENTARY SEQUENCE — MT READ VOLCANICS

- **€dsv** — *Mixed sequence of bedded volcaniclastic sandstone, siltstone, mudstone and breccia, typically quartz-feldspar-bearing, with some andesitic lavas and intrusives (€dsv).*
- **€dsvs** — *Dominantly greywacke and mudstone with some interbedded vitric tuff, crystal tuff and crystal-lithic tuff (€dsvs).*
- **€dsvx** — *Mainly volcaniclastic sandstone, breccia and tuffaceous units. Typically crystal rich, with minor siltstone and mudstone (€dsvx).*
- **€dsvl** — *Mainly quartz-feldspar ± biotite phyric lava (€dsvl).*
- **€fp** — *Mainly feldspar (± quartz)-phyric andesite-dacite lava (€fp).*
- **€dalb** — *Brown-weathering lava, breccia and related intrusives of basaltic to andesitic composition (feldspar-pyroxene-phyric), including Lynch Creek Basalts (€dalb).*
- **€dsqm** — *Well bedded micaceous quartzwacke, sandstone and minor mudstone (Miners Ridge Sandstone) (€dsqm).*

INTRUSIVE ROCKS

PALEOZOIC — CAMBRIAN

- **qv** — *Quartz vein (qv).*

CAMBRIAN SERIES 3 — MT READ VOLCANICS

- **€dvl** — *Mainly feldspar (+ quartz)-phyric lavas and possible intrusives (crypto-domes ?), commonly with a spherulitic or snowflake textured groundmass. Columnar jointing in some places (€dvl).*
- **€qfbp** — *Quartz-feldspar-biotite-porphyry - mainly intrusive but may be partly extrusive (€qfbp).*
- **€fph** — *Feldspar-pyroxene-hornblende porphyry (€fph).*
- **€dalb** — *Brown-weathering lava, breccia, and related intrusives of basaltic to andesitic composition (feldspar-pyroxene-phyric), including Lynch Creek Basalts (€dalb).*
- **€dbil** — *Coarse-grained equigranular pyroxene-feldspar-biotite-talc (after olivine) rock, possibly related to Lynch Creek Basalts (€dbil).*

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Geological contact - inferred from magnetic data.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*

FAULTS

- *Fault.*
- *Fault - inferred.*

LINEARS

- *Lineament - visible in radiometric data.*

- *Strike and dip of bedding facing known, right way up; overturned; vertical (facing indicated by single tic); horizontal bedding.*
- *Strike and dip of bedding, facing unknown - dipping; vertical.*
- *Strike and dip of cleavage, type and relative age unspecified - dipping; vertical.*
- *Strike and dip of vertical igneous banding - dipping; vertical.*
- *Strike and dip of crenulation cleavage, dipping.*
- *Trend and plunge of minor fold hinge line, unspecified relative age.*
- *Trend and plunge of horizontal minor fold hinge line.*
- *Trend and plunge of hinge line of minor antiform, unspecified relative age.*
- *Trend and plunge of minor fold hinge line, relative local age F_1; F_2.*
- *Generalised palaeocurrent direction, showing sense of movement.*
- *Trend and plunge of columnar jointing.*
- *Macrofossil location.*
- *Microfossil location.*
- *Mineral deposit location - hardrock.*
- *Construction material/industrial mineral/gemstone location.*

REFERENCE THIS MAP AS:

VICARY, M.J. (compiler) 2004. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3633 Strahan. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GDA94 - MGA Zone 55. Contour Interval: 20 metres.

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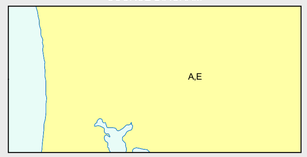
SOURCE DIAGRAM



- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg.1:25 000 map or equivalent detail).
- Regional systematic (eg.1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by M.J. Vicary, B.Sc.(Hons), 2004 as part of the Western Tasmanian Regional Minerals Program from the following sources (see source diagram):

A BAILLIE, P. W.; CORBETT, K. D.; COX, S. F.; CORBETT, E. B.; BRAVO, A. P.; GEE, R. D.; GULLINE, A. B.; LEGGE, P. J.; PIKE, G. P.; TURNER, N. J.; WILLIAMS, P. R.; MCCLENAGHAN, M. P.; BROWN, A. V. 1977. Geological Atlas 1:50 000 Series. Sheet 57 (7913N). Strahan. Department of Mines, Tasmania.

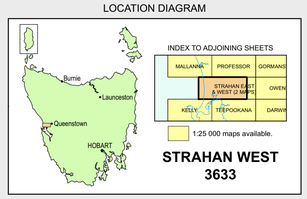
B CORBETT, K.D., CALVER, C.R. EVERARD, J.L. and SEYMOUR, D.B. 1989. Geological Atlas 1:25 000 Series, Queenstown. Department of Mines Tasmania.

C CORBETT, K.D., PEMBERTON, J. and VICARY, M.J. 1993. Geology of the Mt Jukes - Mt Darwin area. Map 13. Mt Read Volcanics project, Tasmania Department of Mines.

D Stockwell, R. 1998. Annual Report May 1997 - May 1998 - Tasmanian Base Metals Project, EL 2/94 - Lynchford. RGC Exploration Proprietary Limited. TCR 98-4200.

E VICARY, M.J. 2005. Additional map compilation and review of existing maps in western Tasmania. Tasmanian Geological Survey Record 2005/05. Mineral Resources Tasmania.

LOCATION DIAGRAM



Map generated: 11-JUN-2024

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